Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/23/2014 10/23/2014	Herman Phillips

LM Otant		Rating **	Α	Issue No.		4	
LM Start		rating		13306 140.		4	
LM End		Issue Type +	Ma	Location *	CR		
Category	Earthen Levee			GPS Latitude/Longitude			
Category			Start		End		
Item		s & Maintena	nce	ce			0
пеш	Manuals			0			0
DWR ID	DWR_RD2	060_01_f _ 201	4_4				
		Action/	Comme	nts			
Inspector (Comments	: RD 2060 ha	s the O8	M Manual	on fi	le.	

No Photos

Rating ** Issue No. LM Start Α 7 CR Issue Type + Ma Location * LM End Earthen Levee GPS Latitude/Longitude Category Start End **Emergency Supplies &** Item Equipment DWR RD2060 01 f 2014 7 DWR ID Action/Comments Inspector Comments: RD 2060 has emergency supplies on hand.

No Photos

Rating ** Issue No. LM Start Α 12 LM End Issue Type + Ma Location * CR Earthen Levee GPS Latitude/Longitude Category Start End Flood Preparedness & Training Item DWR ID DWR_RD2060_01_s _ 2012_12 Action/Comments

Inspector Comments: RD 2060 has trained staff for a flood fight.

No Photos

* Location

LS: Land Side N/A: Not Applicable

WS: Water Side

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/23/2014 10/23/2014	Herman Phillips

LM Start	0.00	Rating **	Α	Issue No.	3		
LM End	6.94	Issue Type +	Ма	Location *	LS		
Catagony	Category Earthen Levee				GPS Latitude/Longitude		
Calegory			Start		End		
Item	Vegetation			38.2473	25 °	38.274841 °	
item			-121.6963	03 °	-121.794855 °		
DWR ID	DWR_RD2060_01_f _ 2014_3						
Action/Comments							

Control annual grass and weeds on the levee slopes and easements.

Photo 1 of 1 : FA_2014_RD2060_241_3_20141027_00002.jpg



Looking downstream landside levee slope was cleaned and dragged by District. Levee mile 0.00 Unit 1

LM Start	0.56	Rating **	М	Issue No.		14		
LM End	0.57	Issue Type +	Ма	Location *	WS			
Category	Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End		
Item	Erosion / Bank Caving				30 °	38.248617 °		
item			-121.7064	03 °	-121.706667 °			
DWR ID	DWR ID DWR_RD2060_01_s _ 2012_14							
		A - 1' 1	<u> </u>	- 1 -				

Action/Comments

Note and monitor erosion site.

Inspector Comments: District has placed some more rock in this area, they will place more later. 3-08-2011 viewed the erosion site, this site is still active. The district says that they will make repairs end of April or May 2011.

No Photos

LM Start	1.70	Rating **	М	Issue No.	1		
LM End	1.70	Issue Type +	Ма	Location *	WS		
Category	Suppleme	ental		GPS Lat	titud	e/Longitude	
Calegory				Start		End	
Item	USACE E	JSACE Erosion Survey			5 °	38.257517	0
item				-121.72475	3°	-121.724823	0
DWR ID	DWR_RD2	060_01_f _ 201	4_1				
			_				

Action/Comments

Inspector Comments: 2011 - Multiple erosion pockets. Deep cracks throughout site could lead to further bank failure. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: LDS_1-9_L]

No Photos

*Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

N : Not Inspected/Rated M : Maintenance Deficiancy Ob : Design & System Obsolescence

C : Corrected A/W : Acceptable but Monitor & Maintain Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/23/2014 10/23/2014	Herman Phillips

LM Start	1.90	Rating **	М	Issue No.	9				
LM End	1.90	Issue Type +	Ма	Location *	WS				
Catagony	Category Earthen Levee				GPS Latitude/Longitude				
Calegory			Start		End				
Item	Erosion /	rosion / Bank Caving			64 °	38.256664 °			
пеш				-121.72153	35 °	-121.721535 °			
DWR ID	DWR_RD2060_01_s _ 2013_9								
Action/Comments									

Note and monitor erosion site.

Inspector Comments: District has plans to bring material to be placed at site along with more rock, stated during the inspection 3-28-2013.

LM Start	1.91	Rating **	М	Issue No.		13	
LM End	1.91	Issue Type +	Ма	Location *		WS	
Catagory	Earthen L	.evee		GPS La	tituc	le/Longitude	
Category				Start		End	
Itom	Erosion / Bank Caving			38.25666	4 °	38.256664	0
Item				-121.72453	6°	-121.724536	0
DWR ID	DWR_RD2060_01_s _ 2013_13						
		A ation /	Camma	nto			

No Photos

No Photos

Action/Comments

Schedule repair of erosion site prior to the next inspection. Inspector Comments: It appears that this site is also active. Spring inspection 2013.

LM Start	1.92	Rating **	М	Issue No.	16				
LM End	1.92	Issue Type +	Ма	Location *	WS				
Catagory	Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End			
Itom	Erosion / Bank Caving			38.2567	66°	38.256766 °			
Item				-121.7245	52 °	-121.724552 °			
DWR ID	DWR_RD2	DWR_RD2060_01_s _ 2013_16							
Action/Comments									

No Photos

Note and monitor erosion site.

Inspector Comments: At this location the material is soft and this site is much like the one at L/M 1.90 and L/M 1.91. District is aware of the sites and repairs are being planed.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/23/2014 10/23/2014	Herman Phillips

LM Start	2.34	Rating **	М	Issue No.	2		
LM End	2.34	Issue Type +	Ma	Location *	WS		
Catagory	Suppleme	ental		GPS Lat	tud	e/Longitude	
Category				Start		End	
ltom	USACE Erosion Survey			38.25722	1°	38.257319	0
Item				-121.73195	3°	-121.732423	0
DWR ID	DWR_RD2060_01_f _ 2014_2						

Action/Comments
Inspector Comments: 2011 - Two erosion pockets from rotational

failures. Very soft soil. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: LDS_2-4_L]

No Photos

LM Start	2.40	Rating **	U	Issue No.		17	
LM End	2.40	Issue Type +	Ма	Location *		WS	
Category Earthen Levee			GPS Latitude/Longitude				
				Start		End	
Item	Erosion /	Erosion / Bank Caving			54 °	38.259254 °	
item				-121.72725	57 °	-121.727257 °	
DWR ID	DWR_RD2	060_01_s _ 201	3_17				
			_				

Action/Comments

Schedule repair of erosion site prior to the next inspection. Inspector Comments: District is aware of the problem, they are scheduling the area to be repaired 2014. During my inspection 10-23-2014 no new repairs has been done at this location. No new photo taken of site.

Photo 1 of 1: FA_2014_RD2060_241_17_20141027_00001.jpg



From RD 536 Looking across channel at RD 2060 Unit 1 erosion site levee mile 2.40 scour hole up to 20' deep and more than 50 feet across. Photo taken 10-08-2013. This erosion site is still active, District has it scheduled for repairs 2014.

LM Start	2.49	Rating **	М	Issue No.		18		
LM End	2.50	Issue Type +	Ma	Location *	WS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item Erosion / Bank Caving			38.2574	07 °	38.257407	0		
item				-121.7320	02 °	-121.732002	0	
DWR ID	DWR_RD2	060_01_s _ 201	13_18					
Action/Comments								

Note and monitor erosion site.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W: Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/23/2014 10/23/2014	Herman Phillips

LM Start	5.07	Rating **	М	Issue No.		6	
LM End	5.07	Issue Type +	Ма	Location *		CR	
Category Earthen Levee			GPS La	atitud	le/Longitude		
Calegory				Start		End	
Item	Repair Gates			38.2631	57 °	38.263157	
пеш					43 °	-121.771543 [°]	
DWR ID	DWR_RD2	060_01_s _ 201	2_6				
		Action/	Comme	nts			

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	10/23/2014 10/23/2014	Herman Phillips

LM Start	0.00	Rating **	М	Issue No.		10	
LM End	3.70	Issue Type +	Ma	Location *	Location * LS		
Category Earthen Levee			GPS Latitude/Longitude				
			Start		End		
Itom	, Vegetation			38.2748	41 °	38.296651	0
Item				-121.7948	55 °	-121.748801	0
DWR ID DWR_RD2060_02_f _ 2014_10							
	Action/Comments						

Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Looking downstream from landside slope.

Photo 1 of 1: FA_2014_RD2060_242_10_20141027_00005.jpg



Looking downstream from landside of levee slope.

LM Start	0.16	Rating **	М	Issue No.	8		
LM End	1.99	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Category			Start		End		
Item	Vegetatio	n		38.2769	22 °	38.288348 °	
пеш				-121.7959	55 °	-121.776932 °	
DWR ID DWR_RD2060_02_f _ 2014_8					·		
	Action/Comments						

Control annual grass and weeds on the levee slopes and easements.

No Photos

LM Start	0.21	Rating **	M	Issue No.	9		
LM End	2.01	Issue Type +	Ma	Location *	WS		
Category Earthen Levee			GPS Latitude/Longitude				
			Start		End		
ltom	, Vegetation			38.2776	00 °	38.288627	0
пеш	Item				-121.795975 °		0
DWR ID DWR_RD2060_02_f _ 2014_9							
Action/Comments							

Control annual grass and weeds on the levee slopes and easements.

No Photos

* Location

LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

** Rating
A: Acceptable
M: Minimally Acceptable
U: Unacceptable
A

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/23/2014 10/23/2014	Herman Phillips

LM Start	0.00	Rating **	С	Issue No.	7		_
LM End	0.00	Issue Type +	Ma	Location *	LS		
Catagonia Earthen Levee			GPS Latitude/Longitude				
Calegory	Category			Start		End	
Item	Vegetatio	n		38.29665°	1°	38.296651	0
пеш				-121.74880°	1°	-121.748800	0
DWR ID DWR_RD2060_03_s _ 2012_7							
	Action/Comments						

Remove the wild growth other than native grasses from the levee slopes.

No Photos

LM Start	0.00	Rating **	Α	Issue No.		15
LM End	0.00	Issue Type +	Ma	Location *	LS	
Catagory Earthen Levee			GPS Latitude/Longitude			
Category			Start		End	
ltom	ltem Vegetation			38.2966	51 °	38.296651 °
пеш				-121.7488	00 °	-121.748800 °
DWR ID DWR_RD2060_03_f _ 2014_15						
		Action/	Commo	ntc		

Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The District has mowed both levee slopes landward and waterward, starting from levee mile 0.00 heading downstream.

Photo 1 of 1: FA_2014_RD2060_243_15_20141201_00014.jpg



Looking downstream from levee mile 0.00 landside levee slope, grasses has been mowed both landside and waterside.

LM Start	1.51	Rating **	М	Issue No.	10			
LM End	1.60	Issue Type +	Ма	Location *	WS			
Category				GPS Latitude/Longitude				
Category				Start		End		
Item	USACE E	rosion Survey	′	38.28859	98 °	38.286051 °		
пеш				-121.72518	34 °	-121.722818 °		
DWR ID	ID DWR_RD2060_03_f _ 2014_10							
	Action/Comments							

Inspector Comments: Site added in 1997 and removed in 2003. 2005 -Put back in the inventory. 2006 - Stone repair at the middle of the site. 2011 - Some rock place at toe in the past year. 2013: Site extended both upstream and downstream to include new erosion pockets. [2013 Site ID: CHS_23-6_R]

Photo 1 of 1: FA_2014_RD2060_243_10_20141008_00008.jpg



USACE 2013 Photo #1

Location Ma : Maintenance Deficiancy N/A: Not Applicable LS: Land Side : Acceptable N : Not Inspected/Rated WS : Water Side Minimally Acceptable C : Corrected Ob : Design & System Obsolescence U : Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/23/2014 10/23/2014	Herman Phillips

LM Start	1.96	Rating **	М	Issue No.	9		
LM End	2.08	Issue Type +	Ma	Location *		WS	
Category	Supplemental			GPS Latitude/Longitude			
Category				Start		End	
Item	USACE E	rosion Survey	′	38.2841	05 °	38.283302	
пеш				-121.7184	71 °	-121.717814	
DWR ID DWR_RD2060_03_f _ 2014_9							
	Action/Comments						

Inspector Comments: 2010 - Small maintenance site. 2013: No observed changes. [2013 Site ID: CHS_23-0_R]

Photo 1 of 1: FA_2014_RD2060_243_9_20141008_00007.jpg



USACE 2013 Photo #1

LM Start	2.11	Rating **	М	Issue No.	8	
LM End	2.17	Issue Type +	Ma	Location *		WS
Category			GPS Latitude/Longitude			
Calegory	alegory					End
Item	USACE E	rosion Survey	/	38.2828	47 °	38.282245 °
пеш				-121.7175	49 °	-121.717058 °
DWR ID DWR_RD2060_03_f _ 2014_8						
Action/Comments						

Inspector Comments: 2013: Pockets of ersoion behind willows. [2013 Site ID: CHS_22-9_R]

Photo 1 of 1: FA_2014_RD2060_243_8_20141008_00006.jpg



USACE 2013 Photo #1 Photo 1 of 1: FA_2014_RD2060_243_6_20141008_00004.jpg

LM Start	2.18	Rating **	М	Issue No.	6		
LM End	2.24	Issue Type +	Ma	Location *	WS		
Category	Supplemental			GPS Lat	titud	le/Longitude	
Calegory			Start			End	
Item	USACE E	rosion Survey	/	38.28206	9°	38.281482	0
пеш				-121.71689	1°	-121.716356	0
DWR ID	DWR_RD2	VR_RD2060_03_f _ 2014_6					
	Action/Comments						

Inspector Comments: 2007 - Geotechnical failure of midside slope and wave wash/scalloping in toe area. Stone revetment upstream and downstream of site. Similar sites are present all along the right bank downstream of this site, most could be repaired with some maintenance. 2010 - Minor new erosion. 2013: No observed changes. [2013 Site ID: CHS_22-8_R]



USACE 2013 Photo #1

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/23/2014 10/23/2014	Herman Phillips

LM Start	2.34	Rating **	М	Issue No.	5		
LM End	2.53	Issue Type +	Ma	Location *	WS		
Category			GPS Latitude/Longitude				
Calegory	tegory					End	
Item	USACE E	rosion Survey	′	38.2803	56 °	38.278214 °	
пеш				-121.7146	97 °	-121.712857 °	
DWR ID DWR_RD2060_03_f _ 2014_5							
	Action/Comments						

Inspector Comments: 2008 - Small scour pockets and mid-slope wave wash. 2010 - More vegetation growth, could be fixed through maintenance. 2011 - Site extended downstream and new erosion. 2013: No observed changes. [2013 Site ID: CHS_22-6_R]



USACE 2013 Photo #1

LM Start	2.54	Rating **	М	Issue No.	4			
LM End	2.58	Issue Type +	Ma	Location *		Location *		WS
Catagory	Catagori Supplemental			GPS Latitude/Longitude				
Category			Start		End			
Item	USACE E	rosion Survey	/	38.2781	09 °	38.277754		
item		-121.712671 °		1 ° -121.712144 °				
DWR ID DWR_RD2060_03_f _ 2014_4								
Action/Comments								

Inspector Comments: 2013: Erosion pockets into the levee toe. [2013 Site ID: CHS_22-5_R]



USACE 2013 Photo #1

LM Start	3.28	Rating **	A/W	Issue No.		12	
LM End	3.48	Issue Type +	Issue Type + Ma		WS		
Category	Earthen L	.evee		GPS La	tituc	le/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.27086	63 °	38.270324	. 0
пеш				-121.70680	00°	-121.705904	. 0
DWR ID	DWR_RD2	060_03_s _ 201	2_12				

Action/Comments

Environmental Requirements.
Inspector Comments: There was a fire this spring that burned this revegetation site, during the 2012 inspection new growth has sprouted up. During the 2013 inspection new sprouts continue to come up.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/23/2014 10/23/2014	Herman Phillips

LM Start	3.67	Rating **	М	Issue No.		1	
LM End	4.08	Issue Type +	Ma	Location *	WS		
Category	Supplemental			GPS Latitude/Longitude			
				Start		End	
Item	USACE Erosion Survey			38.26458	5 °	38.260593 °	
				-121.69886	8 °	-121.696403 °	
DWR ID	DWR_RD2060_03_f _ 2014_1						
Action/Comments							

Inspector Comments: 2011 - Several pockets of erosion from rotational failure and slumping toe. 2013: Site extended downstream to include new erosion pockets. [2013 Site ID: CHS_21-1_R]

Photo 1 of 1 : FA_2014_RD2060_243_1_20141008_00001.jpg



USACE 2013 Photo #1